

Product datasheet for **MG203003**

Cnn2 (BC008181) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cnn2 (BC008181) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Cnn2
 Synonyms: AA408047; AI324678; Calpo2
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG203003 representing BC008181
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACAAGCTGCAGCCAGGCTCCGTCCCAAAATCAACCGCTCTATGCAAACTGGCACCAGCTAGAAA
 ATCTCTCCAACCTCATCAAGGCCATGGTCAGCTACGGCATGAACCCTGTGGACCTGTTTGAGGCCAATGA
 CCTGTTTCGAGAGCGGGAACATGACACAGGTGCAAGTGTCTCTGCTTGCCTGGTGGAAAGGCCAAGACC
 AAGGGGTGCAGAGTGGTGTGGACATTGGAGTTAAGTATTCGGAGAAACAGGAGAGGAACTTTGACGACC
 CCACCATGAAGGCCGGCCAGTGCCTCATCGGGCTGCAGATGGGCACCAACAAGTGTCCAGCCAGTCTGG
 CATGACAGCCTATGGTACCAGGAGACATCTCTATGACCCTAAGAACCATATCCTGCCTCCATGGACCAC
 TGCACCATCAGCCTCCAGATGGGCACCAACAAGTGTGCCAGCCAGGTGGGCATGACAGCTCCAGGGACCC
 GGAGGCACATCTATGACACCAAGCTGGGCACCGACAAGTGCACAACTCTTCCATGTCCCTGCAGATGGG
 CTACACGCAGGGCGCAACCAGAGCGGTGAGGTCTTCGGACTGGGGCGGCAGATCTACGATCCCAAGTAT
 TGCCACAGGGCTCTGCAGCTGATGGGGCTCCTGCGGGTGACGGCCAAGGCGAGGCCCCAGAGTACCTGG
 CCTACTGCCAGGAGGAAGCCGGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203003 representing BC008181
Red=Cloning site Green=Tags(s)

MNKLQPGSVPKINRSMQNWHLLENLSNFIKAMVSYGMNPVDLFEANDLFESGNTQVQVSLALAGKAKT
 KGLQSGVDIGVKYSEKQERNFDDATMKAGQCVIGLQMGTNKCASQSGMTAYGTRRHL YDPKNHILPPMDH
 CTISLQMGTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSMSLQMGYTQGANQSQGVFGLGRQIYDPKY
 CPQGSAADGAPAGDGGQGEAPEYLAYCQEEAGY

TRTRPLE - GFP Tag - V

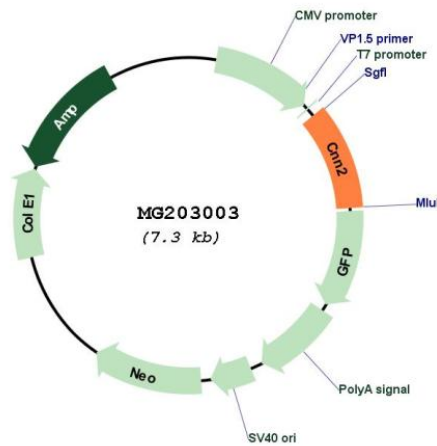
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC008181

ORF Size: 728 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC008181 , AAH08181
RefSeq Size:	1724 bp
RefSeq ORF:	728 bp
Locus ID:	12798
Cytogenetics:	10 C1
Gene Summary:	Thin filament-associated protein that is implicated in the regulation and modulation of smooth muscle contraction. It is capable of binding to actin, calmodulin, troponin C and tropomyosin. The interaction of calponin with actin inhibits the actomyosin Mg-ATPase activity.[UniProtKB/Swiss-Prot Function]